

IN THE CLAIMS

1. (Original) A method for transmitting signaling information over control channels of a communication system, the method comprising the steps of:

providing a defined set of signaling information to be transmitted over a first signaling channel; and

scrambling signaling information to be transmitted over a second signaling channel based on the particular signaling information, from the defined set, to be transmitted over the first signaling channel.

2. (Currently Amended) The method of claim 1, further comprising:

correcting the signaling information transmitted over the first signaling channel and received over such channel without application of additional channel coding to such information [[where the signaling information transmitted over the first signaling channel and received over such channel can be corrected without application of additional channel coding to such information]].

3. (Original) The method of claim 1 where the step of providing a defined set of information further comprises associating a particular scrambling procedure of a particular scrambling scheme to each signaling information from the defined set.

4. (Original) The method of claim 3 where the scrambling scheme is to interleave the signaling information to be transmitted over the second signaling channel and the scrambling procedure comprises the steps of:

organizing the second signaling channel information into separate rows of a matrix; and

outputting columns of the matrix in a sequential manner where the first signaling channel information to be transmitted determines which column of the matrix is outputted first.

5. (Original) The method of claim 3 where the scrambling scheme is to apply a particular Walsh code to the signaling information to be transmitted over the second signaling channel and where the applied Walsh code is part of a set of orthogonal Walsh codes having different spreading factors and the scrambling procedure comprises the step of selecting a particular Walsh code having an appropriate spreading factor.

6. (Currently Amended) [[The method of claim 3]] A method for transmitting signaling information over control channels of a communication system, the method comprising the steps of:
providing a defined set of signaling information to be transmitted over a first signaling channel where the step of providing a defined set of information further comprises associating a particular scrambling procedure of a particular scrambling scheme to each signaling information from the defined set; and

scrambling signaling information to be transmitted over a second signaling channel based on the particular signaling information, from the defined set, to be transmitted over the first signaling channel where the scrambling scheme is to generate a polarized block pattern associated with the information to be transmitted over the second signaling channel where the scrambling procedure comprises the steps of:

generating a specific number of replicated channel coded blocks; and

polarizing a specific portion of the replicated channel coded blocks.

7. (Currently Amended) The method of claim [[3]] 6 where the communication system is a cdma2000-1x-EV-DV standard compliant CDMA system.

8. (Currently Amended) The method of claim 7 where the first signaling channel is a primary control channel of the CDMA communication system and the second signaling channel is a secondary control channel of the CDMA communication system.

9. (Original) The method of claim 8 where the defined set of information to be transmitted over the primary control channel contains sub-packet length indications for the secondary control channels and the data channels of the CDMA system.